Subject: [PATCH 1/7 net-2.6.25] [IPV4]: Fix memory leak on error path during FIB initialization.

Posted by den on Fri, 25 Jan 2008 13:51:57 GMT

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```
net->ipv4.fib_table_hash is not freed when fib4_rules_init failed. The problem
has been introduced by the following commit.
commit c8050bf6d84785a7edd2e81591e8f833231477e8
Author: Denis V. Lunev <den@openvz.org>
Date: Thu Jan 10 03:28:24 2008 -0800
Signed-off-by: Denis V. Lunev <den@openvz.org>
net/ipv4/fib_frontend.c | 10 +++++++
1 files changed, 9 insertions(+), 1 deletions(-)
diff --git a/net/ipv4/fib frontend.c b/net/ipv4/fib frontend.c
index d282618..d0507f4 100644
--- a/net/ipv4/fib frontend.c
+++ b/net/ipv4/fib frontend.c
@@ -975,6 +975,7 @@ static struct notifier block fib netdev notifier = {
static int __net_init ip_fib_net_init(struct net *net)
+ int err;
 unsigned int i;
 net->ipv4.fib table hash = kzalloc(
@ @ -985,7 +986,14 @ @ static int __net_init ip_fib_net_init(struct net *net)
 for (i = 0; i < FIB TABLE HASHSZ; i++)
 INIT HLIST HEAD(&net->ipv4.fib table hash[i]);
- return fib4 rules init(net);
+ err = fib4_rules_init(net);
+ if (err < 0)
+ goto fail;
+ return 0;
+
+fail:
+ kfree(net->ipv4.fib table hash);
+ return err;
static void __net_exit ip_fib_net_exit(struct net *net)
1.5.3.rc5
```

Subject: [PATCH 3/7 net-2.6.25] [IPV4]: Prohibit assignment of 0.0.0.0 as interface address.

Posted by den on Fri, 25 Jan 2008 13:51:59 GMT

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I could hardly imagine why sombady needs to assign 0.0.0.0 as an interface address or interface destination address. The kernel will behave in a strage way in several places if this is possible, as ifa_local != 0 is considered as initialized/non-initialized state of the ifa.

```
Signed-off-by: Denis V. Lunev <den@openvz.org>
net/ipv4/devinet.c | 12 +++++++++
1 files changed, 12 insertions(+), 0 deletions(-)
diff --git a/net/ipv4/devinet.c b/net/ipv4/devinet.c
index 9da4c68..e55c85e 100644
--- a/net/ipv4/devinet.c
+++ b/net/ipv4/devinet.c
@ @ -534,7 +534,13 @ @ static struct in_ifaddr *rtm_to_ifaddr(struct nlmsghdr *nlh)
 ifa->ifa dev = in dev;
 ifa->ifa local = nla get be32(tb[IFA LOCAL]);
+ err = -EINVAL:
+ if (ifa->ifa local == htonl(INADDR ANY))
+ goto fail free;
 ifa->ifa_address = nla_get_be32(tb[IFA_ADDRESS]);
+ if (ifa->ifa address == htonl(INADDR ANY))
+ goto fail_free;
 if (tb[IFA BROADCAST])
 ifa->ifa broadcast = nla get be32(tb[IFA BROADCAST]);
@@ -549,6 +555,8 @@ static struct in ifaddr *rtm to ifaddr(struct nlmsghdr *nlh)
 return ifa;
+fail_free:
+ inet_free_ifa(ifa);
errout:
 return ERR_PTR(err);
@ @ -736,6 +744,8 @ @ int devinet ioctl(unsigned int cmd, void user *arg)
 ret = -EINVAL;
 if (inet abc len(sin->sin addr.s addr) < 0)
  break:
+ if (sin->sin_addr.s_addr == INADDR_ANY)
+ break;
```

```
if (!ifa) {
    ret = -ENOBUFS;
@ @ -786,6 +796,8 @ @ int devinet_ioctl(unsigned int cmd, void __user *arg)
    ret = -EINVAL;
    if (inet_abc_len(sin->sin_addr.s_addr) < 0)
        break;
+ if (sin->sin_addr.s_addr == INADDR_ANY)
+ break;
    ret = 0;
    inet_del_ifa(in_dev, ifap, 0);
    ifa->ifa_address = sin->sin_addr.s_addr;
---
1.5.3.rc5
```

Subject: [PATCH 5/7 net-2.6.25] [IPV4]: fib_sync_down rework. Posted by den on Fri, 25 Jan 2008 13:52:01 GMT

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fib_sync_down can be called with an address and with a device. In reality it is called either with address OR with a device. The codepath inside is completely different, so lets separate it into two calls for these two cases.

```
Signed-off-by: Denis V. Lunev <den@openvz.org>
include/net/ip fib.h
                        3 +-
net/ipv4/fib_frontend.c | 4 +-
3 files changed, 57 insertions(+), 54 deletions(-)
diff --git a/include/net/ip fib.h b/include/net/ip fib.h
index 9daa60b..1b2f008 100644
--- a/include/net/ip fib.h
+++ b/include/net/ip fib.h
@ @ -218,7 +218,8 @ @ extern void fib_select_default(struct net *net, const struct flowi *flp,
/* Exported by fib_semantics.c */
extern int ip_fib_check_default(__be32 gw, struct net_device *dev);
-extern int fib_sync_down(__be32 local, struct net_device *dev, int force);
+extern int fib sync down dev(struct net device *dev, int force);
+extern int fib sync down addr( be32 local);
extern int fib_sync_up(struct net_device *dev);
extern be32 fib res prefsrc(struct fib result *res);
extern void fib_select_multipath(const struct flowi *flp, struct fib_result *res);
diff --git a/net/ipv4/fib_frontend.c b/net/ipv4/fib_frontend.c
index d0507f4..d69ffa2 100644
--- a/net/ipv4/fib_frontend.c
```

```
+++ b/net/ipv4/fib frontend.c
@ @ -808,7 +808,7 @ @ static void fib del ifaddr(struct in ifaddr *ifa)
    First of all, we scan fib_info list searching
    for stray nexthop entries, then ignite fib_flush.
  */
if (fib_sync_down(ifa->ifa_local, NULL, 0))
+ if (fib_sync_down_addr(ifa->ifa_local))
   fib_flush(dev->nd_net);
@ @ -898,7 +898,7 @ @ static void nl_fib_lookup_exit(struct net *net)
static void fib_disable_ip(struct net_device *dev, int force)
{
- if (fib_sync_down(0, dev, force))
+ if (fib_sync_down_dev(dev, force))
 fib flush(dev->nd net);
 rt cache flush(0);
 arp ifdown(dev);
diff --git a/net/ipv4/fib semantics.c b/net/ipv4/fib semantics.c
index c791286..5beff2e 100644
--- a/net/ipv4/fib semantics.c
+++ b/net/ipv4/fib semantics.c
@@ -1031,70 +1031,72 @@ nla put failure:
   referring to it.
  - device went down -> we must shutdown all nexthops going via it.
 */
-int fib sync down( be32 local, struct net device *dev, int force)
+int fib sync down addr( be32 local)
 int ret = 0;
int scope = RT_SCOPE_NOWHERE;
- if (force)
- scope = -1;
+ unsigned int hash = fib_laddr_hashfn(local);
+ struct hlist head *head = &fib info laddrhash[hash];
+ struct hlist node *node;
+ struct fib info *fi;
- if (local && fib_info_laddrhash) {
unsigned int hash = fib_laddr_hashfn(local);
- struct hlist_head *head = &fib_info_laddrhash[hash];
- struct hlist node *node;
- struct fib_info *fi;
+ if (fib info laddrhash == NULL | local == 0)
+ return 0;
```

```
- hlist for each entry(fi, node, head, fib lhash) {
- if (fi->fib_prefsrc == local) {
fi->fib_flags |= RTNH_F_DEAD;
   ret++:
- }
+ hlist_for_each_entry(fi, node, head, fib_lhash) {
+ if (fi->fib_prefsrc == local) {
+ fi->fib_flags |= RTNH_F_DEAD;
+ ret++:
 }
 }
+ return ret;
+}
- if (dev) {
- struct fib info *prev fi = NULL;
unsigned int hash = fib_devindex_hashfn(dev->ifindex);
struct hlist head *head = &fib info devhash[hash];
- struct hlist node *node;
- struct fib nh *nh;
+int fib sync down dev(struct net device *dev, int force)
+{
+ int ret = 0:
+ int scope = RT_SCOPE_NOWHERE;
+ struct fib_info *prev_fi = NULL;
+ unsigned int hash = fib_devindex_hashfn(dev->ifindex);
+ struct hlist head *head = &fib info devhash[hash];
+ struct hlist node *node;
+ struct fib_nh *nh;
hlist_for_each_entry(nh, node, head, nh_hash) {
struct fib_info *fi = nh->nh_parent;
- int dead:
+ if (force)
+ scope = -1;
- BUG ON(!fi->fib nhs);

    if (nh->nh dev != dev || fi == prev fi)

  continue;
- prev fi = fi;

    dead = 0;

- change_nexthops(fi) {
   if (nh->nh_flags&RTNH_F_DEAD)
   dead++:
   else if (nh->nh_dev == dev &&
    nh->nh scope != scope) {
   nh->nh flags |= RTNH F DEAD;
```

```
+ hlist_for_each_entry(nh, node, head, nh_hash) {
+ struct fib_info *fi = nh->nh_parent;
+ int dead;
+
+ BUG_ON(!fi->fib_nhs);
+ if (nh->nh_dev != dev || fi == prev_fi)
+ continue;
+ prev_fi = fi;
+ dead = 0;
+ change nexthops(fi) {
+ if (nh->nh_flags&RTNH_F_DEAD)
+ dead++:
+ else if (nh->nh_dev == dev &&
   nh->nh_scope != scope) {
   nh->nh_flags |= RTNH_F_DEAD;
#ifdef CONFIG_IP_ROUTE_MULTIPATH
   spin lock bh(&fib multipath lock);
   fi->fib_power -= nh->nh_power;
   nh->nh power = 0;
   spin_unlock_bh(&fib_multipath_lock);
   spin_lock_bh(&fib_multipath_lock);
   fi->fib power -= nh->nh power;
   nh->nh\_power = 0;
   spin_unlock_bh(&fib_multipath_lock);
+
#endif
   dead++:
  }
  dead++;
+ }
#ifdef CONFIG IP ROUTE MULTIPATH
  if (force > 1 \&\& nh->nh dev == dev) {
   dead = fi->fib_nhs;
   break:
  }
-#endif
- } endfor nexthops(fi)
- if (dead == fi->fib_nhs) {
fi->fib_flags |= RTNH_F_DEAD;
ret++:
+ if (force > 1 && nh->nh_dev == dev) {
+ dead = fi->fib nhs;
   break;
  }
+#endif
+ } endfor_nexthops(fi)
+ if (dead == fi->fib_nhs) {
+ fi->fib_flags |= RTNH_F_DEAD;
+ ret++;
```

```
}
}
--
1.5.3.rc5
```

Subject: [PATCH 6/7 net-2.6.25] [NETNS]: Add a namespace mark to fib_info. Posted by den on Fri, 25 Jan 2008 13:52:02 GMT

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This is required to make fib_info lookups namespace aware. In the other case initial namespace devices are marked as dead in the local routing table during other namespace stop.

```
Signed-off-by: Denis V. Lunev <den@openvz.org>
include/net/ip_fib.h
                          1+
net/ipv4/fib_semantics.c | 8 ++++----
2 files changed, 5 insertions(+), 4 deletions(-)
diff --git a/include/net/ip fib.h b/include/net/ip fib.h
index 1b2f008..cb0df37 100644
--- a/include/net/ip fib.h
+++ b/include/net/ip fib.h
@@ -69,6 +69,7 @@ struct fib_nh {
struct fib_info {
 struct hlist_node fib_hash;
 struct hlist_node fib_lhash;
+ struct net *fib net;
 int fib_treeref;
 atomic t fib clntref;
 int fib dead;
diff --git a/net/ipv4/fib_semantics.c b/net/ipv4/fib_semantics.c
index 5beff2e..97cc494 100644
--- a/net/ipv4/fib_semantics.c
+++ b/net/ipv4/fib_semantics.c
@ @ -687,6 +687,7 @ @ struct fib_info *fib_create_info(struct fib_config *cfg)
 struct fib info *fi = NULL;
 struct fib_info *ofi;
 int nhs = 1;
+ struct net *net = cfg->fc nlinfo.nl net;
 /* Fast check to catch the most weird cases */
 if (fib_props[cfg->fc_type].scope > cfg->fc_scope)
@@ -727,6 +728,7 @@ struct fib_info *fib_create_info(struct fib_config *cfg)
 goto failure:
 fib_info_cnt++;
```

```
+ fi->fib net = net:
 fi->fib_protocol = cfg->fc_protocol;
 fi->fib_flags = cfg->fc_flags;
 fi->fib_priority = cfg->fc_priority;
@ @ -798,8 +800,7 @ @ struct fib_info *fib_create_info(struct fib_config *cfg)
 if (nhs != 1 || nh->nh_gw)
  goto err_inval;
 nh->nh scope = RT SCOPE NOWHERE;
- nh->nh dev = dev get by index(cfg->fc nlinfo.nl net,
       fi->fib nh->nh oif);
+ nh->nh dev = dev get by index(net, fi->fib nh->nh oif);
 err = -ENODEV;
 if (nh->nh dev == NULL)
  goto failure;
@ @ -813,8 +814,7 @ @ struct fib_info *fib_create_info(struct fib_config *cfg)
 if (fi->fib prefsrc) {
 if (cfg->fc_type != RTN_LOCAL || !cfg->fc_dst ||
    fi->fib prefsrc != cfg->fc dst)
- if (inet addr type(cfg->fc nlinfo.nl net,
     fi->fib prefsrc) != RTN LOCAL)
+ if (inet addr type(net, fi->fib prefsrc) != RTN LOCAL)
   goto err_inval;
1.5.3.rc5
```

Subject: [PATCH 7/7 net-2.6.25] [NETNS]: Lookup in FIB semantic hashes taking into account the namespace.

Posted by den on Fri, 25 Jan 2008 13:52:03 GMT

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The namespace is not available in the fib_sync_down_addr, add it as a parameter.

Looking up a device by the pointer to it is OK. Looking up using a result from fib_trie/fib_hash table lookup is also safe. No need to fix that at all. So, just fix lookup by address and insertion to the hash table path.

```
Signed-off-by: Denis V. Lunev <den@openvz.org>---
include/net/ip_fib.h | 2 +-
net/ipv4/fib_frontend.c | 2 +-
net/ipv4/fib_semantics.c | 6 +++++-
3 files changed, 7 insertions(+), 3 deletions(-)
```

```
diff --git a/include/net/ip fib.h b/include/net/ip fib.h
index cb0df37..90d1175 100644
--- a/include/net/ip_fib.h
+++ b/include/net/ip_fib.h
@ @ -220,7 +220,7 @ @ extern void fib_select_default(struct net *net, const struct flowi *flp,
/* Exported by fib_semantics.c */
extern int ip_fib_check_default(__be32 gw, struct net_device *dev);
extern int fib_sync_down_dev(struct net_device *dev, int force);
-extern int fib sync down addr( be32 local);
+extern int fib sync down addr(struct net *net, be32 local);
extern int fib_sync_up(struct net_device *dev);
extern __be32 __fib_res_prefsrc(struct fib_result *res);
extern void fib_select_multipath(const struct flowi *flp, struct fib_result *res);
diff --git a/net/ipv4/fib_frontend.c b/net/ipv4/fib_frontend.c
index d69ffa2..86ff271 100644
--- a/net/ipv4/fib frontend.c
+++ b/net/ipv4/fib frontend.c
@ @ -808,7 +808,7 @ @ static void fib del ifaddr(struct in ifaddr *ifa)
    First of all, we scan fib info list searching
    for stray nexthop entries, then ignite fib flush.
  */
- if (fib sync down addr(ifa->ifa local))
+ if (fib_sync_down_addr(dev->nd_net, ifa->ifa_local))
   fib flush(dev->nd net);
 }
 }
diff --git a/net/ipv4/fib_semantics.c b/net/ipv4/fib_semantics.c
index 97cc494..a13c847 100644
--- a/net/ipv4/fib semantics.c
+++ b/net/ipv4/fib semantics.c
@@ -229,6 +229,8 @@ static struct fib info *fib find info(const struct fib info *nfi)
 head = &fib info hash[hash];
 hlist_for_each_entry(fi, node, head, fib_hash) {
+ if (fi->fib_net != nfi->fib_net)
+ continue;
 if (fi->fib_nhs != nfi->fib_nhs)
  continue:
 if (nfi->fib protocol == fi->fib protocol &&
@ @ -1031,7 +1033,7 @ @ nla put failure:
   referring to it.
  - device went down -> we must shutdown all nexthops going via it.
-int fib_sync_down_addr(__be32 local)
+int fib_sync_down_addr(struct net *net, __be32 local)
 int ret = 0;
 unsigned int hash = fib laddr hashfn(local);
```

Subject: Re: [PATCH 3/7 net-2.6.25] [IPV4]: Prohibit assignment of 0.0.0.0 as interface address.

Posted by Daniel Lezcano on Fri, 25 Jan 2008 14:01:34 GMT View Forum Message <> Reply to Message

Denis V. Lunev wrote:

- > I could hardly imagine why sombady needs to assign 0.0.0.0 as an interface
- > address or interface destination address. The kernel will behave in a strage
- > way in several places if this is possible, as ifa local != 0 is considered
- > as initialized/non-initialized state of the ifa.

AFAICS, we should be able to set at an interface address to 0.0.0.0, in order to remove an IP address from an interface and keep this one up. I see two trivial cases:

- * remove the ipv4 on an interface but continue to use it through ipv6
- * move ipv4 address from the interface to an attached bridge

Subject: Re: [PATCH 3/7 net-2.6.25] [IPV4]: Prohibit assignment of 0.0.0.0 as interface address.

Posted by den on Fri, 25 Jan 2008 14:13:32 GMT

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Daniel Lezcano wrote:

- > Denis V. Lunev wrote:
- >> I could hardly imagine why sombady needs to assign 0.0.0.0 as an
- >> interface
- >> address or interface destination address. The kernel will behave in a
- >> strage
- >> way in several places if this is possible, as if a local != 0 is
- >> considered
- >> as initialized/non-initialized state of the ifa.

>

> AFAICS, we should be able to set at an interface address to 0.0.0.0, in

- > order to remove an IP address from an interface and keep this one up.
- > I see two trivial cases:
- > * remove the ipv4 on an interface but continue to use it through ipv6
- > * move ipv4 address from the interface to an attached bridge

For this case there is an IOCTL/netlink "remove IP address".

Subject: Re: [PATCH 3/7 net-2.6.25] [IPV4]: Prohibit assignment of 0.0.0.0 as interface address.

Posted by Daniel Lezcano on Fri, 25 Jan 2008 14:37:53 GMT

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Denis V. Lunev wrote:

- > Daniel Lezcano wrote:
- >> Denis V. Lunev wrote:
- >>> I could hardly imagine why sombady needs to assign 0.0.0.0 as an
- >>> interface
- >>> address or interface destination address. The kernel will behave in a
- >>> strage
- >>> way in several places if this is possible, as ifa_local != 0 is
- >>> considered
- >>> as initialized/non-initialized state of the ifa.
- >> AFAICS, we should be able to set at an interface address to 0.0.0.0, in
- >> order to remove an IP address from an interface and keep this one up.
- >> I see two trivial cases:
- >> * remove the ipv4 on an interface but continue to use it through ipv6
- >> * move ipv4 address from the interface to an attached bridge

>

> For this case there is an IOCTL/netlink "remove IP address".

That's right. But there are people relying on 0.0.0.0 to remove IP addresses, especially in the bridge scripts.

Subject: Re: [PATCH 3/7 net-2.6.25] [IPV4]: Prohibit assignment of 0.0.0.0 as interface address.

Posted by Daniel Lezcano on Fri, 25 Jan 2008 14:48:05 GMT

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Denis V. Lunev wrote:

- > Daniel Lezcano wrote:
- >> Denis V. Lunev wrote:
- >>> I could hardly imagine why sombady needs to assign 0.0.0.0 as an
- >>> interface
- >>> address or interface destination address. The kernel will behave in a
- >>> strage

- >>> way in several places if this is possible, as ifa_local != 0 is
- >>> considered
- >>> as initialized/non-initialized state of the ifa.
- >> AFAICS, we should be able to set at an interface address to 0.0.0.0, in
- >> order to remove an IP address from an interface and keep this one up.
- >> I see two trivial cases:
- >> * remove the ipv4 on an interface but continue to use it through ipv6
- >> * move ipv4 address from the interface to an attached bridge

>

> For this case there is an IOCTL/netlink "remove IP address".

And I forgot to mention the general broadcast.

This is need for the dhcp protocol. If you are not able to set your interface to 0.0.0.0, you will be not able to send a 255.255.255.255 broadcast message to have your IP address.

Subject: Re: [PATCH 3/7 net-2.6.25] [IPV4]: Prohibit assignment of 0.0.0.0 as interface address.

Posted by den on Fri, 25 Jan 2008 15:12:41 GMT

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Daniel Lezcano wrote:

- > Denis V. Lunev wrote:
- >> Daniel Lezcano wrote:
- >>> Denis V. Lunev wrote:
- >>>> I could hardly imagine why sombady needs to assign 0.0.0.0 as an
- >>>> interface
- >>>> address or interface destination address. The kernel will behave in a
- >>>> strage
- >>>> way in several places if this is possible, as ifa_local != 0 is
- >>>> considered
- >>>> as initialized/non-initialized state of the ifa.
- >>> AFAICS, we should be able to set at an interface address to 0.0.0.0, in
- >>> order to remove an IP address from an interface and keep this one up.
- >>> I see two trivial cases:
- >>> * remove the ipv4 on an interface but continue to use it through ipv6
- >>> * move ipv4 address from the interface to an attached bridge

>>

>> For this case there is an IOCTL/netlink "remove IP address".

>

- > And I forgot to mention the general broadcast.
- > This is need for the dhcp protocol. If you are not able to set your
- > interface to 0.0.0.0, you will be not able to send a 255.255.255.255
- > broadcast message to have your IP address.

>

OK. Dave, pls disregard this patch. I suspect that others in the set

should not intersect with this one.

To summarize the discussion:

there is the only reason for this assignment: old IOCTL interface does not have a way to remove IP address except this, though netlink has a method for it that's why I am a little bit confused:)

This is handled in the __inet_insert_ifa: ifa is just removed there and, correctly, ifa with 0.0.0.0 address can't exists in the kernel.

Sorry:)

Subject: Re: [PATCH 3/7 net-2.6.25] [IPV4]: Prohibit assignment of 0.0.0.0 as interface address.

Posted by Daniel Lezcano on Fri, 25 Jan 2008 15:12:44 GMT View Forum Message <> Reply to Message

Denis V. Lunev wrote:

```
> Daniel Lezcano wrote:
```

- >> Denis V. Lunev wrote:
- >>> Daniel Lezcano wrote:
- >>>> Denis V. Lunev wrote:
- >>>> I could hardly imagine why sombady needs to assign 0.0.0.0 as an
- >>>> interface
- >>>> address or interface destination address. The kernel will behave in a
- >>>> strage
- >>>> way in several places if this is possible, as if a local != 0 is
- >>>> considered
- >>>> as initialized/non-initialized state of the ifa.
- >>> AFAICS, we should be able to set at an interface address to 0.0.0.0, in
- >>> order to remove an IP address from an interface and keep this one up.
- >>>> I see two trivial cases:
- >>> * remove the ipv4 on an interface but continue to use it through ipv6
- >>> * move ipv4 address from the interface to an attached bridge
- >>> For this case there is an IOCTL/netlink "remove IP address".
- >> And I forgot to mention the general broadcast.
- >> This is need for the dhcp protocol. If you are not able to set your
- >> interface to 0.0.0.0, you will be not able to send a 255.255.255.255
- >> broadcast message to have your IP address.

>> >

- > OK. Dave, pls disregard this patch. I suspect that others in the set
- > should not intersect with this one.
- > To summarize the discussion:
- > there is the only reason for this assignment: old IOCTL interface does
- > not have a way to remove IP address except this, though netlink has a

> method for it that's why I am a little bit confused :) > This is handled in theinet_insert_ifa: ifa is just removed there and, > correctly, ifa with 0.0.0 address cont ovicts in the kernel
> correctly, ifa with 0.0.0.0 address can't exists in the kernel. Yes, my last statement is false.
Subject: Re: [PATCH 3/7 net-2.6.25] [IPV4]: Prohibit assignment of 0.0.0.0 as interface address. Posted by Stephen Hemminger on Fri, 25 Jan 2008 16:34:04 GMT View Forum Message <> Reply to Message
On Fri, 25 Jan 2008 16:51:59 +0300 "Denis V. Lunev" <den@openvz.org> wrote:</den@openvz.org>
> I could hardly imagine why sombady needs to assign 0.0.0.0 as an interface > address or interface destination address. The kernel will behave in a strage > way in several places if this is possible, as ifa_local != 0 is considered > as initialized/non-initialized state of the ifa. > Signed-off-by: Denis V. Lunev <den@openvz.org> ></den@openvz.org>
This is used as a way to bring device up in lots of existing documentation. So please don't change.
Stephen Hemminger <stephen.hemminger@vyatta.com></stephen.hemminger@vyatta.com>

Containers mailing list
Containers@lists.linux-foundation.org
https://lists.linux-foundation.org/mailman/listinfo/containers